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**Physical Science Work and Simple Machines (Ch.3) Outline**

*Vocabulary*: Define in your own words

Work-

Power-

Mechanical Advantage-

Efficiency-

Simple Machine-

**Respond to the following questions/prompts:**

What must happen for work to be done? Explain. (2 pts)

How does doing work on an object change its energy? Explain. (2 pts)

Why can't the work done by a machine be greater than the work done on a machine? Explain. (2 pts)

What are three ways a machine can make doing work easier? Describe a situation that provides an example for each of the three ways machines make work easier. (6 pts)

What are the 6 simple machines? Provide an example where you can see each of these simple machines at work in an everyday situation. (7 pts)

***ABOUT THE READING:***

Write three things that you learned about Work and Power*:*

***Make sure to write a full sentence.***

*Example: I learned that one horsepower is equal to 33,000 foot-pounds per minute in units of power.*

*1.*

*2.*

*3.*

**ASSIGNED WORK:**

*What is horsepower? Read the article on horsepower on page 93. After reading the article, research why steam engines, which were so important during the Industrial Revolution, are seldom used in modern times. Historically, steam engines were used in pumps and in locomotive engines. Explain your reasoning in a short paragraph. \*\* Cite any website/source that you use to find information on steam engines\*\* At least one source should be used. (6 pts)*